

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/680,390	10/02/2003	Naomi E. Chayen	20030323.ORI	2644
23595	7590 02/21/20		EXAMINER	
	MERSEREAU, P O AVENUE SOUTH		HITESHEW, FELISA CARLA	
SUITE 820	AVENUE SOUTH		ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55402			1722	

DATE MAILED: 02/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
065 - 4 - 4' 0	10/680,390	CHAYEN, NAOMI E.				
Office Action Summary	Examiner	Art Unit				
	Felisa C. Hiteshew	1722				
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply but will apply and will expire SIX (6) MONTHS fire, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>120; 22-23 and 32-44</u> is/are pendin	g in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20 and 32-44</u> is/are rejected.						
7) Claim(s) <u>23</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by th	ie Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct		•				
11) The oath or declaration is objected to by the E	xaminer. Note the attached Off	ice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119)(a)-(d) or (f).				
2. Certified copies of the priority documen						
3. Copies of the certified copies of the price	ority documents have been rece	eived in this National Stage				
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a list	t of the certified copies not rece	ived.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Mai					
 Notice of Dransperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) D Notice of Information	al Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>See attached paper</u> .	6) Other:					

Information Disclosure Statement

The PTOL 1449 has been received, reviewed and considered. **Specification**

1. Claim 5 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim 1 and 3 in which claim 3 is dependent upon claim 1. See MPEP § 608.01(n). Accordingly, the claim 5 has not been further treated on the merits.

Claim Rejections - 35 USC § 112

1. Claim 22 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 22 uses a method dependent upon a method of another claim. The claims language is redundant. Please clarify the proper claim language.

2. Claim 32 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 33-39 are rejected under 35 U.S.C. 112, second paragraph, as being "indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The use of trademark or trade names was found to be indefinite". *Ex parte Kattwinkel* 12 USPQ 11 (BPAI 1931.

Application/Control Number: 10/680,390

Art Unit: 1722

Claims 33-39 are being considered vague and indefinite in that they are not further limiting in the claim language. "Generally a claim will be definite where each recited limitation is definite. In re *Wakefield* 164 USPQ 636. (CCPA 1970).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1-4,6-9, 12,14-17, and 40-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevens.

Stevens teaches a method for automatically crystallizing proteins, wherein it specifically teaches microbath and sitting or hanging drop vapor diffusion. An automatically liquid dispensing station uses two robotic crystallization systems with an immersion oil to cover over the macromolecule.

Application/Control Number: 10/680,390

Art Unit: 1722

D'Arcy, et al further teaches a similar method for crystallizing proteins and other biological macromolecules under paraffin oil-containing silicon utilizing various volumetric samples.

The difference being Stevens and D'Arcy, et al does not exactly teach a gelforming component to be crystallized. However, in absence of unobvious results, it would have been obvious to one of ordinary skill in the art to modify and optimize the process parameter limitation in order to ensure proper orientation.

A reference is good not only for what it teaches by direct anticipation but also for what one of ordinary skill might reasonably infer from the teachings. In re Opprect 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode 193 USPQ 12; In re Lamberti 192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ 421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 USPQ 342 (CCPA 1968).

Expected beneficial results are evidence of obviousness, just as unexpected beneficial results are evidence of unobviousness. In re Novak 16 USPQ 2d 2041 (Fed. Cir., BPAI 1989); In re Hoffman 194 USPQ 126 (CCPA 1977); In re Skoll 187 USPQ 481 (CCPA 1975); In re Skoner 186 USPQ 80 (CCPA 1975); In re Garshon 152 USPQ 602 (CCPA 1967).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through Thursday from 5:30 AM to 3:00 PM, off first Friday and 5:30 AM. –2 PM on second

Application/Control Number: 10/680,390

Art Unit: 1722

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith, can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).

FELISA HITESHEW PRIMARY EXAMINER

AU 1228